

**DEPARTMENT of ENVIRONMENTAL SERVICES**  
**Water Supply & Pollution Control Division - Biology Bureau**

**LAKE TROPHIC DATA**

**MORPHOMETRIC:**

Lake: GOOSE POND	Lake Area (ha): 6.47
Town: NEW LONDON	Maximum depth (m): 1.0
County: Merrimack	Mean depth (m): 0.3
River Basin: Connecticut	Volume (m <sup>3</sup> ): 21500
Latitude: 43°25'50" N	Relative depth: 0.3
Longitude: 72°02'35" W	Shore configuration: 1.44
Elevation (ft): 1170	Areal water load (m/yr): 145.7
Shore length (m): 1300	Flushing rate (yr <sup>-1</sup> ): 437.0
Watershed area (ha): 1686.4	P retention coeff.: 0.14
% watershed ponded: 12.2	Lake type: natural w/dam

**BIOLOGICAL:**

		2 January 1992	15 July 1991
DOM. PHYTOPLANKTON (% TOTAL)	#1	ASTERIONELLA 95%	NO PLANKTON RESULTS
	#2		
	#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)			370
CHLOROPHYLL-A (µg/L)			2.18
DOM. ZOOPLANKTON (% TOTAL)	#1	KERATELLA 69%	NO PLANKTON RESULTS
	#2	POLYARTHRA 31%	
	#3		
ROTIFERS/LITER		16	
MICROCRUSTACEA/LITER		<1	
ZOOPLANKTON ABUNDANCE (#/L)		16	
VASCULAR PLANT ABUNDANCE			Common/Abun
SECCHI DISK TRANSPARENCY (m)			1.0 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		14.0	7.2
BACTERIA (fecal col., #/100 ml) #1			< 10
	#2		< 10
	#3		

**SUMMER THERMAL STRATIFICATION:**

not stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>) : None  
Anoxic volume (m<sup>3</sup>) : None

**CHEMICAL:**

Lake: GOOSE POND  
Town: NEW LONDON

	2 January 1992		15 July 1991		
DEPTH (m)	1.0		0.5		
pH (units)	6.1		6.7		
A.N.C. (Alkalinity)	3.8		5.3		
NITRATE NITROGEN	< 0.02		< 0.05		
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS	0.002		0.007		
CONDUCTIVITY ( $\mu$ mhos/cm)	76.1		115.8		
APPARENT COLOR (cpu)	8		21		
MAGNESIUM			0.75		
CALCIUM			4.1		
SODIUM			15.4		
POTASSIUM			0.72		
CHLORIDE	15		27		
SULFATE	6		5		
TN : TP					
CALCITE SATURATION INDEX			3.3		

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1991**

D.O. S.D. PLANT CHL TOTAL CLASS

**	4	4	0	8	Meso.
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**COMMENTS:**

1. Also known as Otterville Pond.
2. No boat access.
3. Pond is adjacent to Interstate 89; pond receives drainage from the highway.
4. Entire pond is less than 5 feet deep.
5. Water is clear.
6. Concrete dam was present.
7. Road with sewer line crosses the pond just upstream of the dam.
8. Dominant genera of wholewater plankton were Chroomonas (20%) and tiny green flagellates (20%). Dominant classes were greens (50%) and Cryptomonads (25%).

# Goose Pond

New London

N



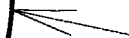
0

.1



Km

All depths less than 5 feet



[illegible]

**WEATHER: CLEAR & WARM**

[illegible]

**\*Dissolved oxygen values are in mg/L**

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# Goose Pond

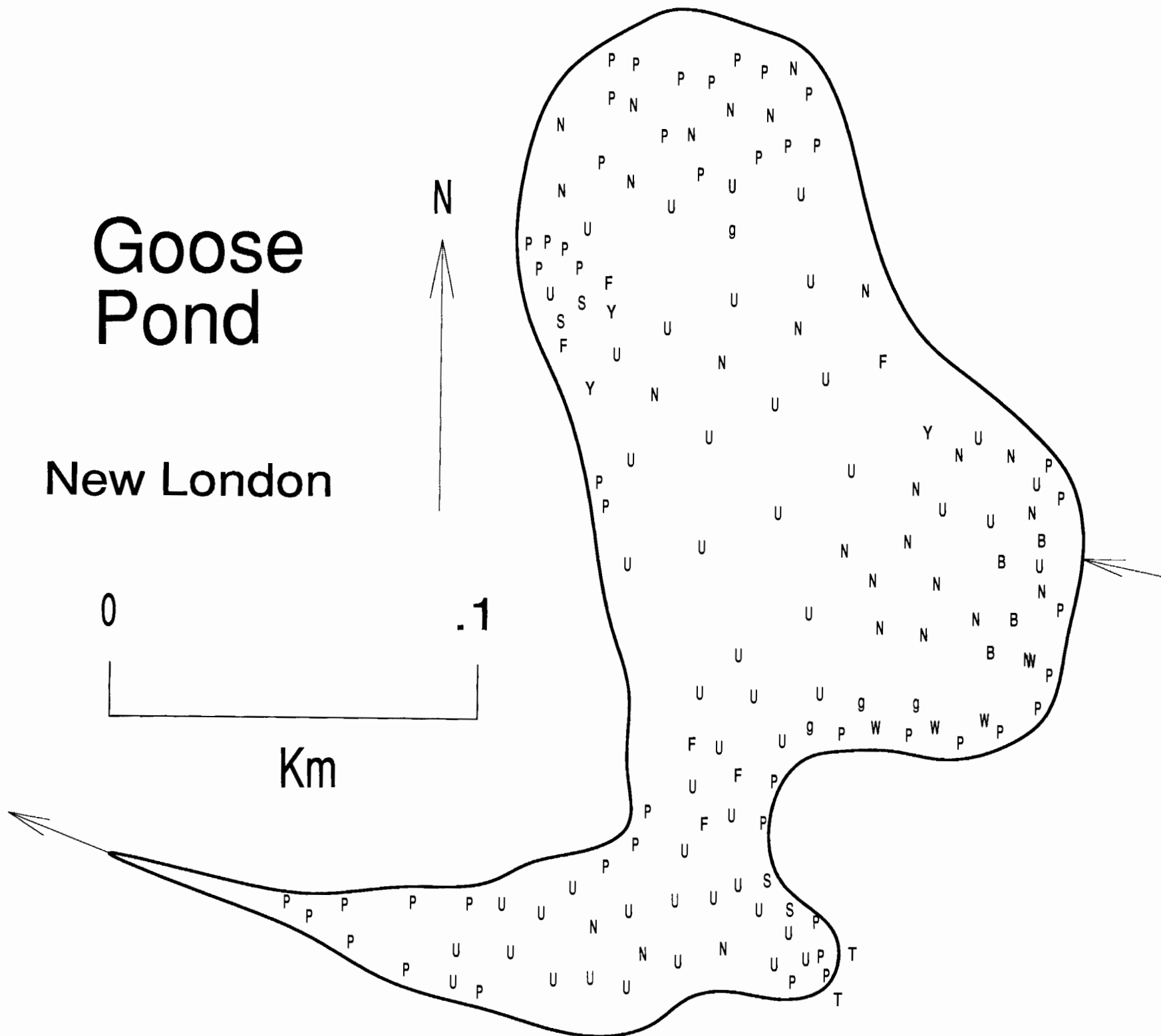
## New London

N

0

.1

Km



## AQUATIC PLANT SURVEY

LAKE: GOOSE POND

**TOWN: NEW LONDON**

DATE: 07/15/91

[illegible]

**OVERALL ABUNDANCE:** Common/Abun

**GENERAL OBSERVATIONS:**

1. A very shallow weedy pond.
2. Bladderwort is over the entire bottom of the pond. It is not a nuisance to boating.